## **CLAIMS**

What is claimed is:

An integrated circuit comprising:

at least one metal layer comprising a plurality of sections, each section comprising a plurality of conductors to interconnect points on the integrated circuit, wherein a preferred direction, within a section, defines a direction, relative to the boundaries of the integrated circuit, for at least fifty percent of conductors in the section;

a first section comprising a first preferred direction for the conductors deposed in the first section; and

a second section comprising a preferred diagonal wiring direction for the conductors deposed in the second section, such that the diagonal wiring preferred direction is a direction different from the first preferred direction.

- 2. The integrated circuit as set forth in claim 1, wherein the first preferred direction comprises a diagonal direction.
- 3. The integrated circuit as set forth in claim 2, wherein the first preferred diagonal direction comprises a direction perpendicular to said a preferred diagonal wiring direction in said second section.

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- 4. The integrated circuit as set forth in claim 1, wherein the diagonal direction comprises an octalinear direction.
- 5. The integrated circuit as set forth in claim 1, wherein the diagonal direction comprises a hexalinear direction.
- 6. The integrated circuit as set forth in claim 1, wherein:
  the first preferred direction comprises a first diagonal direction; and
  the second preferred direction comprises a second diagonal direction, different from the first diagonal direction.
- 6. The integrated circuit as set forth in claim 5, wherein:
  the first diagonal direction comprises an octalinear direction; and
  the second diagonal direction comprises an octalinear direction complementary to the first diagonal direction.
- 7. The integrated circuit as set forth in claim 5, wherein:

  the first diagonal direction comprises a hexalinear direction; and

  the second diagonal direction comprises a hexalinear direction complementary to the first diagonal direction.
  - 8. The integrated circuit as set forth in claim 5, wherein:

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the first diagonal direction comprises an octalinear direction; and the second diagonal direction comprises a hexalinear direction.

- 9. The integrated circuit as set forth in claim 1, wherein the first preferred direction comprises a first Manhattan direction.
- 10. The integrated circuit as set forth in claim 1, further comprising at least one more additional section having a preferred direction comprising a diagonal direction.
- 11. The integrated circuit as set forth in claim 1, further comprising at least one more section having a preferred direction comprising a Manhattan direction.
- 12. The integrated circuit as set forth in claim 1, further comprising at least one additional wire deposed in a section with a direction different than the preferred direction of the section.
  - 13. The integrated circuit as set forth in claim 12, wherein:
    the preferred direction comprises a diagonal direction; and
    the direction different than the preferred direction comprises a Manhattan direction.
  - 14. The integrated circuit as set forth in claim 12, wherein: the preferred direction comprises a Manhattan direction; and

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the direction different than the preferred direction comprises a diagonal direction.

15. The integrated circuit as set forth in claim 12, wherein the direction different than the preferred direction comprises a direction complementary to the preferred direction.